

03-0702



Update

- 9

(office use only)

1. Number of Stories _____
2. Height of Structure _____ ft.
3. Area — Largest Floor _____ sq. ft.
4. New Building Area _____ sq. ft.
5. Volume of New Structure _____ cu. ft.
6. Construction Classification _____
7. Total Land Area Disturbed _____ sq. ft.
8. Flood Hazard Zone _____
9. Base Flood Elevation _____ ft.
10. Wetlands yes _____
 no _____
11. Max. Live Load _____
12. Max. Occupancy Load _____

3. Change in Use Group, Indicate Former:

5. ☐ Cross-Connections/Backflow Preventers
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks

U.C.C. F100-1 (rev. 3/96)

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)1.vii:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:32-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☒ Check if contractor.

Agent Name Ed Wandell

Address PO Box 44

Howell NJ 07731

Telephone (732) 363-0550

Signature Ed B Wandell

III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
FIRE PROTECTION
SUBCODE
TECHNICAL SECTION

Date Received 02/21/2003
Date Issued 3/6/03
Control # C21-12
Permit # 83-0702

A. IDENTIFICATION-APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING
CONTRACTORS, NOTIFY THIS OFFICE, CALL UTILITY DIG NO: 1-800-272-1000
Block 1211 Lot 2 Qual
Work site Location 2001 JAMES MILL RD-BRICK MANOR

Owner in Fee BRICK BOARD OF EDUCATION
Address 101 HENDRICKSON AVE
BRICK, NJ
Tele. (732) 785-3000
Contractor BW INC HARDELL SECURITY SERV
Address PO BOX 44
HOBOKEN, NJ 07731-
Tele. (732) 363-0550
Lic. No. or Bids. Reg. No.
Federal Emp. No. 22-330961

B. FIRE PROTECTION CHARACTERISTICS
Use Group Present U Proposed U
Constr Class Present Proposed
Heating Systems [] New [] Existing [] HVAC
Type: [] Gas [] Oil [] Elect [] Solar
[] Other
Location:
Total Est Cost of Fire Prot Work \$ 21,000

JOB SUMMARY (Office Use Only)
PLAN REVIEW
[] No Plans Required
Joint Plan Review Required:
[] Bldg [] Elect
[] Plumb [] Elevator
[] Fire Plans Approved
Date: 2-25-03
Approved By: [Signature]
SUBCODE APPROVAL
[] CO [] CCG [] CA
Date: 10-21-03
Approved By: [Signature]

C. CERTIFICATION IN LIEU OF OATH
I hereby certify that I am the (agent of) owner of record and am authorized
to make this application.

Signature

D. TECHNICAL SITE DATA

Description of Work:
Water Supply Source
Method of Alarm/Suppr Sys Superv

Storage Tanks
Type: [] Flammable Liquid [] Combust Liquid
[] LPG [] LNG Capacity 0 Fuel
Alarm Systems [] 110v Interconnected NUMBER

Alarm Devices (smoke, heat, pull, water/flow) 116
Supervisory Devices (tamper, low/high air) 0
Signalling Devices (horn/strobes, bells) 0
Other Devices REPLACE DETECTOR 33
TOTAL 149

Suppression Systems
Fire Pump 0 GPM Type
Dry Pipe/Alarm Valves 0
Pre-action Valves 0
Sprinkler Heads (dry and wet) 0
Standpipes 0
Pre-engineered Systems
Wet Chemical 0
Dry Chemical 0
CO2 Suppression 0
Foam Suppression 0
Halon Suppression 0
Other 0

Kitchen Hood Exhaust System 0
Smoke Control System 0
Gas [] or Oil [] Fired Appliances 0
Other 0
Other 0

Paid [] Check # Administrative Surcharge \$
Minimum Fee \$
Collected by: TOTAL FEE \$
DCA State Permit Fee \$

FEE (Office Use Only)

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
PERMIT UPDATE

Update Issued 09/11/2003
Control #
Permit # 03-0702+A
Permit Issued 03/06/2003

IDENTIFICATION Block 1211 Lot 2 Qual
Work Site Location 2001 LANES MILL RD-BRICK MEMOR
Owner in Fee BRICK BOARD OF EDUCATION
Address 101 HENDRICKSON AVE
BRICK, NJ
Telephone (732)785-3000

Contractor E.V.I. INC.
Address P.O. BOX 134
SPOTSWOOD, NJ 08884-
Telephone (609)655-4700
Lic. No. or Bldrs. Reg. No.
Federal Emp. No. 22-3328682

Is hereby granted permission to perform the following work:
☐ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT
☐ ELECTRICAL ☒ FIRE PROTECTION ☐ DEMOLITION
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT ☐ OTHER
(Subchapter 8 only)

DESCRIPTION OF WORK:
HANG HOOD ONLY DUCTWORK & FANS BY OTHERS

Estimated Cost of Work \$ 5,000

Construction Official [Signature] Date 09/11/2003

U.C.C. F190 (rev. 3/96) NJ UCCSAS 3.24E

PAYMENTS (Office Use Only)
Building 0
Electrical 0
Plumbing 0
Fire Protection 0
Elevator Devices 0
Other
DCA State Permit Fee 0
Certificate of Occupancy 0
Other
Total 0
Check No.
Cash
Collected By [Signature]



**FIRE
SUBCODE
TECHNICAL SECTION**



Date Received
Date Issued
Control #
Permit #

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:

Fire Suppression System

Water Supply Source

Method of Alarm/Suppression System Supervision

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO. 1-800-272-1000.

Block Ball Lot 2

Work Site Location Brick Memorial HS

2001 LAUDSMITH RD BRICK, NJ

Owner In Fee Top of Brick

Address

Tele. ()

Contractor FCV-Plus

Address DuPont, NJ

Tele. () 374 8040 Fax () 374 3335

Lic. No.

Federal Emp. No. 22 3328682

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present Proposed
Constr. Class Present Proposed
Heating Systems [] New [] Existing [] HVAC
Type: [] Gas [] Oil [] Electric [] Solar
[] Other
Location: New [] Existing []
Fire Alarm System
Location of Panel:
Fire Suppression/Standpipe System
New [] Existing []
Location of Main Control Valve:

Total Cost of Fire Protection Work \$ 5000

JOB SUMMARY (Office Use Only)

PLAN REVIEW		INSPECTIONS				
		Type:	Failure	Failure	Approval	Initial
[] No Plans Required		Alarm System				
Joint Plan Review Required:		Suppression Sys.				
[] Building	[] Plumbing	Standpipe				
[] Electric	[] Elevator	Fire Pump				
Date: <u>5-2-88</u>		Pre-Eng. System				
Approved by: <u>[Signature]</u>		Mechanical				
SUBCODE APPROVAL		Smoke Control				
[] CO	[] CCO	TCO				
Date: _____		Final				
Approved by: _____		Other				

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Signature [Signature]

Have Hood only
Ductwork & fans by others

(rev. 3/95)

FEE (Office Use Only)

Administrative Surcharge \$
Minimum Fee \$
DCA Training Fee \$
TOTAL FEE \$



FIRE SUBCODE TECHNICAL SECTION



Date Received
Date Issued
Control #
Permit #

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK: New Hood & Exhaust

Free Exhaust System

Water Supply Source

Method of Alarm/Suppression System Supervision

9-11-03
03-07027A

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 1211 Lot 2

Work Site Location 3001 Broad Street, N.J.

Owner In Fee 100 x 200 ft

Address

Tele. ()

Contractor

Address

Tele. () Fax ()

Lic. No.

Federal Emp. No.

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present Proposed

Constr. Class Present Proposed

Heating Systems [] New [] Existing [] HVAC

Type: [] Gas [] Oil [] Electric [] Solar

Location: [] Other

Total Cost of Fire Protection Work \$ 5000

Fire Alarm System

New [] Existing []

Location of Panel:

Fire Suppression/Standpipe System

New [] Existing []

Location of Main Control Valve:

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required

Joint Plan Review Required:

[] Building [] Plumbing

[] Electric [] Elevator

[] Fire Plans Approved

Date: 5-2-03

Approved by: [Signature]

SUBCODE APPROVAL

[] CO [] CCO [] CA

Date: 5-2-03

Approved by: [Signature]

INSPECTIONS

Type:

Alarm System

Suppression Sys.

Standpipe

Fire Pump

Pre-Eng. System

Mechanical

Smoke Control

TCO

Final

Other

Dates (Month/Day)

Failure Failure Approval Initial

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent or) owner of record and am authorized to make this application.

Signature

[Signature] Hand only
Duckworth & Sons
Brooklyn
U.C.C. Flad
(rev. 3/95)

FEE (Office Use Only)

Administrative Surcharge

Minimum Fee

DCA Training Fee

TOTAL FEE

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
ELECTRICAL
SUBCODE
TECHNICAL SECTION

Date Received 02/21/2003
Date Issued 3/6/03
Control # C21-12
Permit # 03-0702

A. IDENTIFICATION-APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING
CONTRACTORS, NOTIFY THIS OFFICE, CALL UTILITY DIG NO: 1-800-272-1000
Block 1231 Lot 2 Sublot
Work Site Location 2001 JAMES MILL RD-BRICK MEMOR

Owner in Fee BRICK BOARD OF EDUCATION
Address 101 HENDRICKSON AVE
BRICK, NJ
Tele. (732) 785-3090
Contractor BHM INC WAREHOUS SECURITY SERV
Address PO BOX 44
HOBOKEN, NJ 07731-
Tele. (732) 363-0550
Lic. No. of Bldgs. Reg. No.
Federal Emp. No. 22-3330961

B. ELECTRICAL CHARACTERISTICS
Use Group - Present U Proposed U
Pole/Pad # Temporary Utility Co.
Building Occupied as
Estimated Cost of Electrical Work \$ 21,000

JOB SUMMARY (Office Use Only)
PLAN REVIEW
Joint Plan Review Required:
Type Rough Temp Serv Const Serv TCO other
Date: 2/26/03
Approved By: [Signature]
SUBCODE APPROVAL
CO COO CA
Date:
Approved By:

C. CERTIFICATION IN LIEU OF OATH
I hereby certify that I as the (agent of) owner of record and am authorized
to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature
Licensed Electrical Contractor Exempt Applicant

D. TECHNICAL SITE DATA

NO.	SIZE	ITEM	REQ (Office Use Only)
0		Lighting Fixtures	
0		Receptacles	
0		Switches	
0		Detectors	
0		Light Poles	
0		Motors-Bract HP	
0		Emergency & Exit Lights	
0		Communications Points	
149		Alarm Devices/E.A.C. Panel	
149		TOTAL NUMBERS	60
0		Pool permit/with UV lights	
0		Storable Pool/Spa/Hot Tub	
0		KW Elect Range/Receptacle	
0		KW Oven/Surface Unit	
0		KW Elect Water Heater	
0		KW Elect Dryer/Receptacle	
0		KW Dishwasher	
0		HP Garbage disposal	
0		KW Central A/C Unit	
0		HP/KW space Heater/Air Handler	
0		Baseboard Heat	
0		HP Motors 1/2 HP	
0		KW Transformer/Generator	
0		AMP Service	
0		AMP Subpanels	
0		AMP Motor Control Center	
0		KW Elect sign/outline light	
0		other	

Paid [] Check #
Collected by:

Administrative Surcharge \$
Minimum Fee \$
TOTAL FEE \$
DCJ State Permit Fee \$

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
ELECTRICAL
SUBCODE
TECHNICAL SECTION

Date Received 02/21/2003
Date Issued 3/14/03
Control # C21-12
Permit # 03-0702

A. IDENTIFICATION-APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS. NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000

Block 1211 Lot 2 Quad
Work Site Location 2901 JAMES MILL RD-BRICK MEMOR

Owner in Fee BRICK BOARD OF EDUCATION
Address 101 HENDRICKSON AVE
BRICK, NJ

Tele. (732) 783-3900
Contractor RBW INC HARBOR SECURITY SERV
Address PO BOX 44
HOWELL, NJ 07731

Tele. (732) 363-0550
Lic. No. or Bldgs. Reg. No.
Federal Reg. No. 22-3330361

E. ELECTRICAL CHARACTERISTICS
Use Group - Present 0 Proposed 0
Pole/Pad # Temporary Other
Building occupied as Utility Co.
Estimated cost of Electrical Work \$ 21,000

JOB SUMMARY (Office Use Only)
PLAN REVIEW
Joint Plan Review Required:
Type Rough
Dates (Month/Day)

Wired Bldg
Wire Bldg
Direct Plans Approved
Date: 2/26/03

Approved By:
SUBCODE APPROVAL
CO CC0 CA
Date:
Approved By:

C. CERTIFICATION IN LIEU OF OATH
I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature
Licensed Electrical Contractor Exempt Applicant

D. TECHNICAL SITE DATA
NO. SIZE

ITEM	NO.	SIZE	FEES (Office Use Only)
Lighting Fixtures	0		
Receptacles	0		
Switches	0		
Detectors	0		
Light Poles	0		
Motors-Trans HP	0		
Emergency & Exit Lights	0		
Communications Points	0		
Alarm Devices/E.A.C. Panel	0		
TOTAL NUMBERS	142		
Pool Permit/With UM Lights	0		
Storable Pool/Spa/Hot Tub	0		
KW Elect Range/Receptacle	0		
KW Oven/Surface Unit	0		
KW Elect Water Heater	0		
KW Elect Dryer/Receptacle	0		
KW Dishwasher	0		
HP Garbage Disposal	0		
KW Central A/C Unit	0		
HP/KW Space Heater/Air Handler	0		
Baseboard Heat	0		
HP Motors 1/2 HP	0		
KW Transformer/Generator	0		
AMP Service	0		
AMP Subpanels	0		
AMP Motor Control Center	0		
KW Elect Sign/Outline Light	0		
Other	0		

paid 1 check #
Collected by:
Administrative Surcharge \$
Minimum Fee \$
TOTAL FEE \$
DCR State Permit Fee \$

E.V.I., INC.

9-G CHRIS COURT

DAYTON, NJ 08810

PHONE (732) 274-0040

FAX (732) 274-1335

LETTER OF TRANSMITTAL

TO: Township of Brick
401 Chambers Bridge Rd.
Brick NJ 08723

DATE: 7/10/03

ATTN: Div. of Inspections

RE: Brick Memorial HS

ENCLOSED ARE THE FOLLOWING:

2001 Landsmill Road

PRINTS ☒

CUT SHEETS ☐

CATALOG ☐

SUBMITTALS ☐

CHANGE ORDER ☐

QUANTITY	DESCRIPTION
①	Fire permit application
③	Sets of hood cuts &
	fire system drawings

THESE ARE TRANSMITTED AS CHECKED BELOW:

FOR APPROVAL ☒

FOR YOUR RECORDS ☐

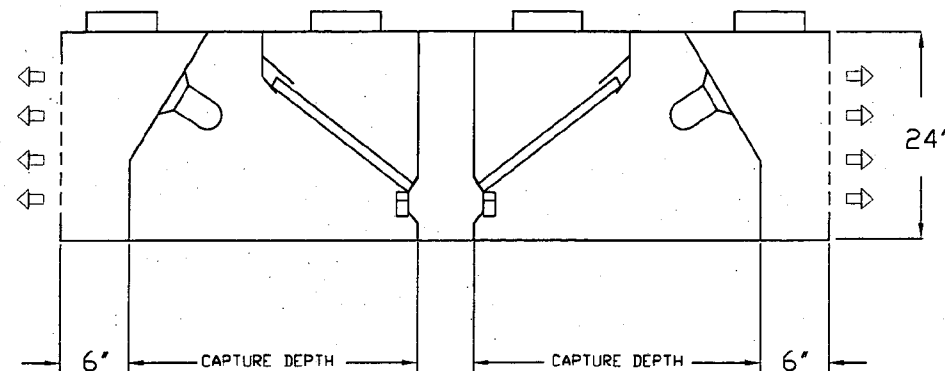
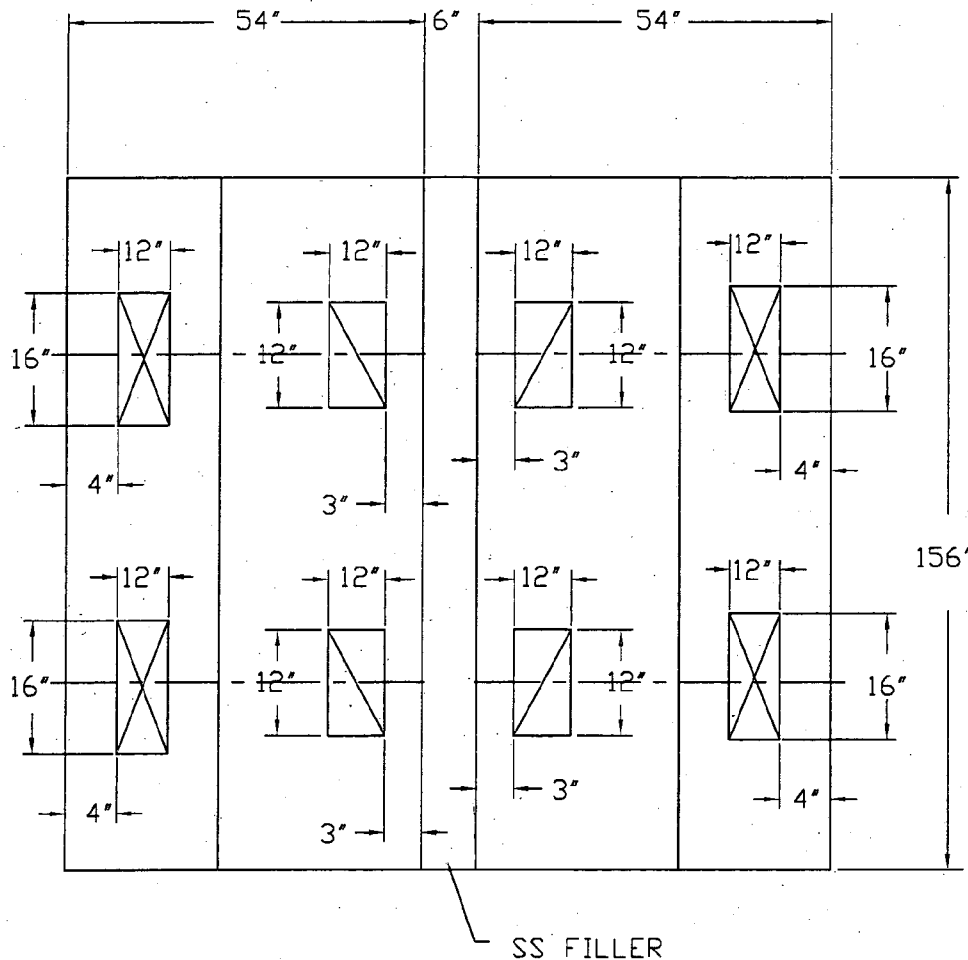
AS REQUESTED ☐

REMARKS: _____

SIGNED: Mark Costlin (MP)

MODEL: SWR-F

* FACTORY MUST BE ADVISED OF ANY SPECIAL REQUIREMENTS OF THE "AUTHORITY HAVING JURISDICTION" AT TIME OF QUOTE



STANDARD FEATURES

ALUM. FILTERS	14
SWITCH PANEL	
INCANDESCENT LIGHTS	10

OPTIONS

S.S. FILTERS	
FLUORESCENT LIGHTS	
U.L. LISTED W/ EX. DAMPER	
U.L. LISTED W/O EX. DAMPER	*
CEILING CLOSURE	
BACKSPASH	
STAND-OFF	
ADDITIONAL SWITCHES	
INSULATION	*

MATERIAL

EXPOSED SURFACES S.S.	*
ALL S.S.	
PAINTED STEEL	

COMMENTS:

6" SS FILLER BETWEEN HOODS

Signature
m/j # 9296

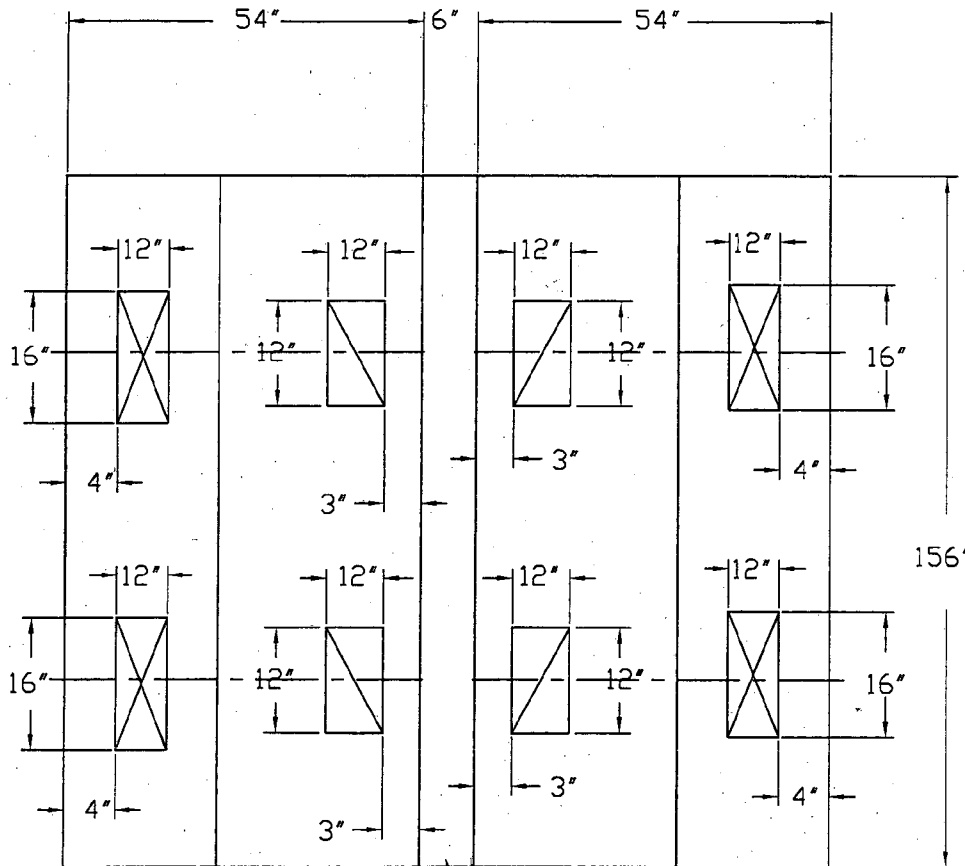
DATE	DWG. NO.	ITEM NO.	EXHAUST INFORMATION	
12/18/02	9597-1		CFM	SP
PROJECT: BRICK MEMORIAL HS			3250 EA 6500 TOTAL	.65"
LOCATION:			SUPPLY INFORMATION	
			CFM	SP
SUBMITTED BY: K-VENT, INC			2762 EA 5524 TOTAL	.25"



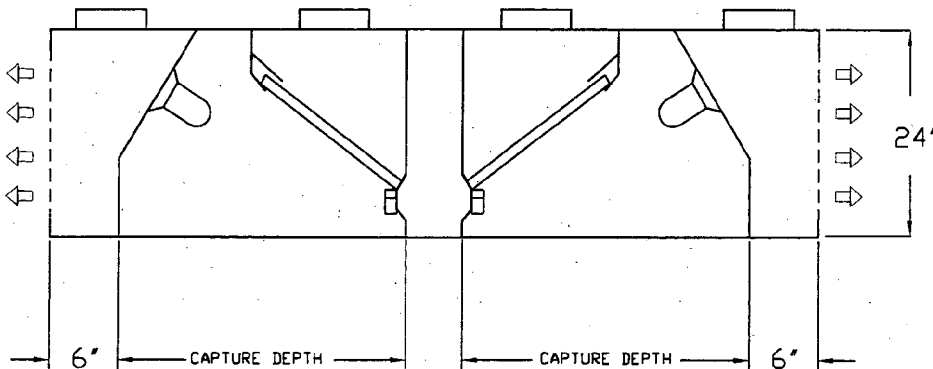
Halton

MODEL: SWR-F

* FACTORY MUST BE ADVISED OF ANY SPECIAL REQUIREMENTS OF THE "AUTHORITY HAVING JURISDICTION" AT TIME OF QUOTE



SS FILLER



STANDARD FEATURES

ALUM. FILTERS	14
SWITCH PANEL	
INCANDESCENT LIGHTS	10

OPTIONS

S.S. FILTERS	
FLUORESCENT LIGHTS	
U.L. LISTED W/ EX. DAMPER	
U.L. LISTED W/O EX. DAMPER	*
CEILING CLOSURE	
BACKSPLASH	
STAND-OFF	
ADDITIONAL SWITCHES	
INSULATION	*

MATERIAL

EXPOSED SURFACES S.S.	*
ALL S.S.	
PAINTED STEEL	

COMMENTS:

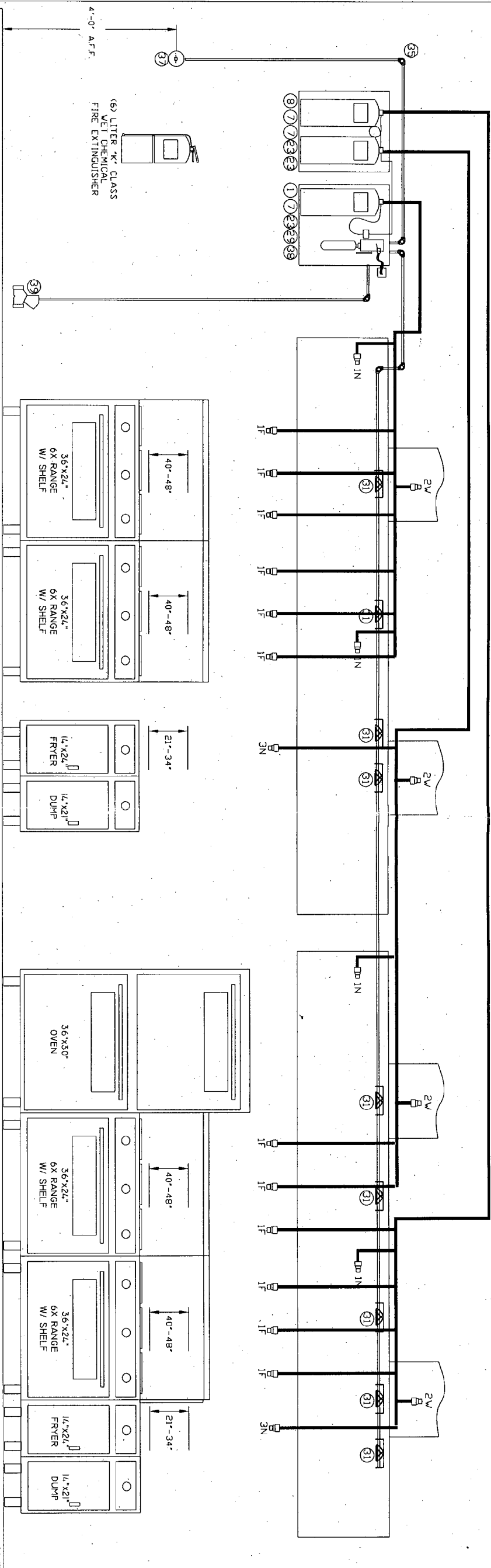
6" SS FILLER BETWEEN HOODS

Lowry Kahen
2/2/96 #9296

DATE	DWG. NO.	ITEM NO.	EXHAUST INFORMATION	
12/18/02	9597-1		CFM	SP
PROJECT: BRICK MEMORIAL HS			3250 EA 6500 TOTAL	65"
LOCATION:			SUPPLY INFORMATION	
			CFM	SP
SUBMITTED BY: K-VENT, INC			2762 EA 5524 TOTAL	25"



Halton



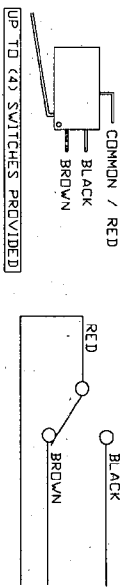
- SYSTEM MANUFACTURER - ANSUL
- MODEL # - R-102 9.0 GALLON
- U.L. EX. - 3470
- EXTINGUISHING AGENT - ANSULEX
- # OF FLOW POINTS - 30
- HOOD SIZE - (2) 13'-0"
- DUCT SIZE - (4) 12"x12"
- SUPPLY PIPE SIZE - 3/8"
- BRANCH PIPE SIZE - 3/8"
- ALL PIPE SCHEDULE 40 BLACK PIPE
- ALL 1/2" CONDUIT

- THE INSTALLATION SHALL COMPLY WITH NFPA 96, NFPA 17A, THE MANUFACTURERS LISTING AND THE LOCAL AUTHORITY HAVING JURISDICTION
- EXHAUST HOOD SHALL CONTAIN BAFLE TYPE GREASE FILTERS
- FIRE SYSTEM SHALL SHUTDOWN FUEL TO ALL APPLIANCES UPON SYSTEM DISCHARGE
- ALL ELECTRIC UNDER EXHAUST HOOD SHALL SHUTDOWN UPON SYSTEM DISCHARGE
- MAKE UP AIR SHOULD SHUTDOWN UPON SYSTEM DISCHARGE
- EXHAUST FAN SHOULD REMAIN ON DURING SYSTEM DISCHARGE
- REMOTE PULL STATION TO BE LOCATED A MINIMUM 10'-0" FROM HOOD ON THE PATH OF EGRESS FROM THE PROTECTED AREA
- FIRE SYSTEM INSTALLATION IS SUBJECT TO SEMI-ANNUAL INSPECTION BY THE AUTHORIZED INSTALLING CONTRACTOR TO WARRANT OF SYSTEM OPERATION & PERFORMANCE
- GAS VALVE TO BE INSTALLED BY A LICENSED PLUMBER

ITEM	QUANTITY	PART #	DESCRIPTION	ITEM	QUANTITY	PART #	DESCRIPTION
1	1	429853	REGULATED RELEASE (MECHANICAL)	22	0	79694	1.5 ANSULEX
2	0	429856	REGULATED RELEASE (ELECTRICAL)	23	3	79372	3.0 ANSULEX
3	0	429870	ENCLOSURE ASSEMBLY	24	0	423439	101-10 CARTRIDGE
4	0	429878	BRACKET ASSEMBLY	25	0	423441	101-20 CARTRIDGE
5	0	429850	REGULATED ACTUATOR	26	0	423443	101-30 CARTRIDGE
6	0	429864	1.5 AGENT TANK	27	0	423429	LT-20-R CARTRIDGE
7	3	429862	3.0 AGENT TANK	28	0	423435	R-102-R CARTRIDGE
8	1	429872	TWO TANK ENCLOSURE	29	1	423493	LT-A-101-30 CARTRIDGE
9	4	419335	1" NOZZLE	30	0	423491	LT-A-101-30 CARTRIDGE
10	4	419336	1" NOZZLE	31	9	417369	DETECTOR
11	0	419334	1/2" NOZZLE	32	0	415745	360 FUSIBLE LINK
12	4	419337	2W NOZZLE	33	9	415746	450 FUSIBLE LINK
13	0	78078	2W NOZZLE	34	0	73867	500 FUSIBLE LINK
14	2	419338	3N NOZZLE	35	20	423250	PULLEY ELBOW
15	0	419339	230 NOZZLE	36	0	427929	PULLEY TEE
16	0	419340	245 NOZZLE	37	1	4835	REMOTE PULL STATION
17	0	419341	260 NOZZLE	38	1	423881	MICROSWITCH
18	0	419342	290 NOZZLE	39	1		MECHANICAL GAS VALVE
19	0	419343	2120 NOZZLE	40	0		SOLENOID GAS VALVE
20	12	419333	1" NOZZLE	41	0	426151	MANUAL RESET RELAY
21	0	430913	1100 NOZZLE	42	1	418087-06	INSTALLATION MANUAL
				43	25		QUICK-SEAL ADAPTOR

- ANSUL R-102 SYSTEM MEA # 59-95-E
- NO DUCTS TO THE INTO AS PER RS 13-3
- FILTER MEA # 137-82M
- FAN SHALL REMAIN ON WHEN SYSTEM IS RELEASED AS PER RS 13-7-2.4

ELECTRIC NOTES:



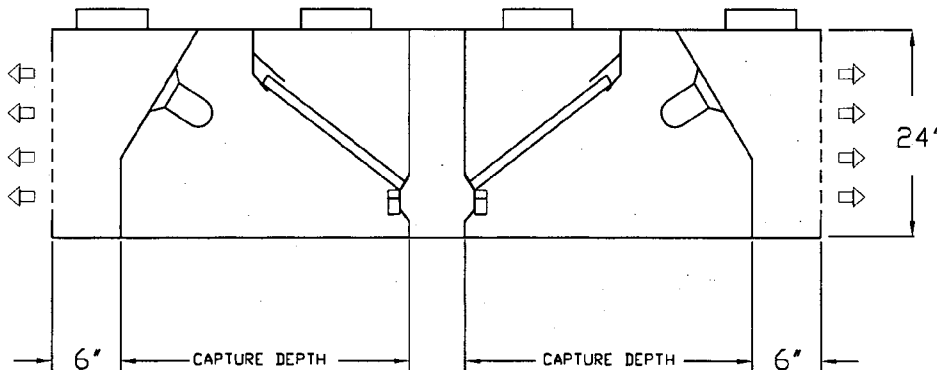
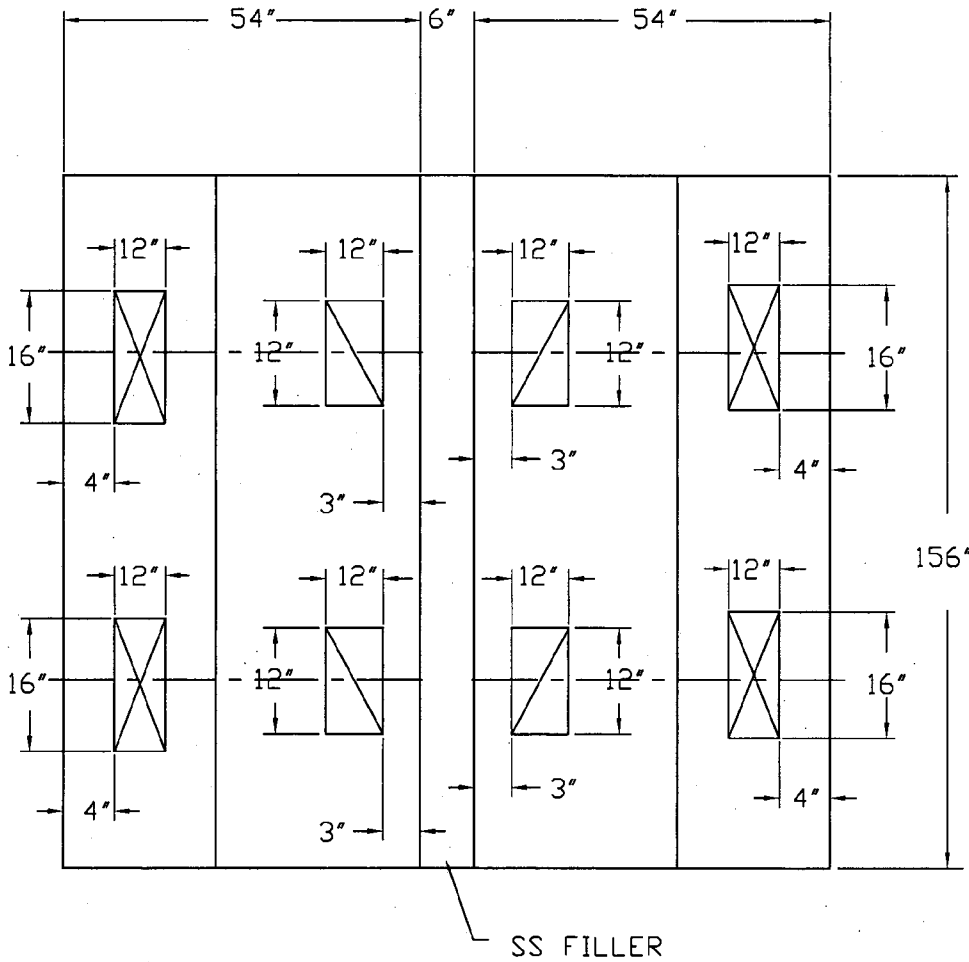
- * WIRING DIAGRAM TO BE USED AS A REFERENCE ONLY
- * ALL CONNECTIONS TO BE VERIFIED BY A LICENSED ELECTRICIAN
- * ALL WIRING TO BE DONE BY A LICENSED ELECTRICIAN
- * RATED SWITCHES A MINIMUM 125 AMP 125/250 OR 250/277 VAC
- * A RELAY MUST BE SUPPLIED BY OTHERS IF THE EQUIPMENT LOAD EXCEEDS THE RATED CAPACITY OF THE SWITCH
- * ALL ELECTRICAL CONNECTIONS ARE TO BE MADE OUTSIDE OF THE FIRE SYSTEM CONTROL BOX
- * ELECTRICIAN TO WIRE HORN/STROBE ALARM OR BUILDING ALARM TO ACTIVATE UPON FIRE SYSTEM DISCHARGE (IF REQUIRED)
- * ELECTRICIAN TO WIRE MAKE-UP AIR TO SHUTDOWN UPON FIRE SYSTEM DISCHARGE
- * ELECTRICIAN TO WIRE ANY ELECTRICAL EQUIPMENT UNDER EXHAUST HOOD TO SHUTDOWN UPON FIRE SYSTEM DISCHARGE (IF APPLICABLE)
- * ELECTRICIAN TO WIRE SOL ENDS GAS VALVE WITH RESET RELAY TO SHUTDOWN UPON FIRE SYSTEM DISCHARGE (IF APPLICABLE)

John Doe
7/10/03

ANSUL	1 OF 1	ANSUL R-102 FIRE SUPPRESSION SYSTEM			
Designed by	Checked by	Approved by - date	File name	Date	Scale
DMC	DLC	7/10/03	ANSULR-102	7/10/03	NTS
RELIABLE FIRE PROTECTION INC. 123 WHITE OAK LANE - SUITE 225 OLD BRIDGE, NJ 08857 732-607-1500 / 800-368-0024			BRICK MEMORIAL HIGH SCHOOL 2001 LANDSMILL ROAD BRICK, NJ		

MODEL: SWR-F

* FACTORY MUST BE ADVISED OF ANY SPECIAL REQUIREMENTS OF THE "AUTHORITY HAVING JURISDICTION" AT TIME OF QUOTE



STANDARD FEATURES

ALUM. FILTERS	14
SWITCH PANEL	
INCANDESCENT LIGHTS	10

OPTIONS

S.S. FILTERS	
FLUORESCENT LIGHTS	
U.L. LISTED W/ EX. DAMPER	
U.L. LISTED W/O EX. DAMPER	*
CEILING CLOSURE	
BACKSPASH	
STAND-OFF	
ADDITIONAL SWITCHES	
INSULATION	*

MATERIAL

EXPOSED SURFACES S.S.	*
ALL S.S.	
PAINTED STEEL	

COMMENTS:

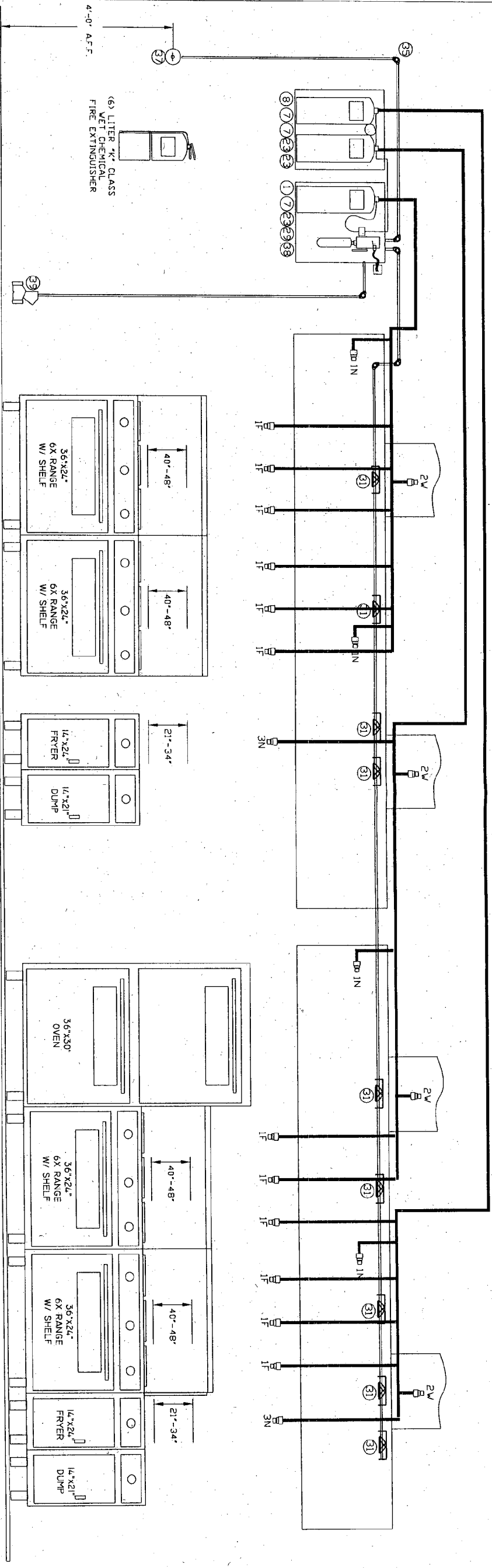
6" SS FILLER BETWEEN HOODS

Robert Kahner
11/1/96 #9296

DATE	DWG. NO.	ITEM NO.	EXHAUST INFORMATION	
12/18/02	9597-1		CFM	SP
PROJECT: BRICK MEMORIAL HS			3250 EA 6500 TOTAL	.65"
LOCATION:			SUPPLY INFORMATION	
			CFM	SP
SUBMITTED BY: K-VENT, INC			2762 EA 5524 TOTAL	.25"



Halton



- 1

429853

1

REGULATED RELEASE (MECHANICAL)

2

429856

0

REGULATED RELEASE (ELECTRICAL)

3

429870

0

ENCLOSURE ASSEMBLY

4

429878

0

BRACKET ASSEMBLY

5

429850

0

REGULATED ACTUATOR

6

429864

0

1.5 AGENT TANK

7

429862

3

3.0 AGENT TANK

8

429872

1

TWO TANK ENCLOSURE

9

419335

4

1N NOZZLE

10

419336

4

1W NOZZLE

11

419334

0

1/2N NOZZLE

12

419337

4

2W NOZZLE

13

78078

0

2W NOZZLE

14

419338

2

3N NOZZLE

15

419339

0

230 NOZZLE

16

419340

0

245 NOZZLE

17

419341

0

260 NOZZLE

18

419342

0

290 NOZZLE

19

419343

0

2120 NOZZLE

20

419333

12

1F NOZZLE

21

430913

0

1100 NOZZLE

- SYSTEM MANUFACTURER - ANSUL

- MODEL # - R-102 9.0 GALLON

- U.L. EX. - 3470

- EXTINGUISHING AGENT - ANSULEX

- # OF FLOW POINTS - 30

- HOOD SIZE - (2) 13'-0"

- DUCT SIZE - (4) 12x12"

- SUPPLY PIPE SIZE - 3/8"

- BRANCH PIPE SIZE - 3/8"

- ALL PIPE SCHEDULE 40 BLACK PIPE

- ALL 1/2" CONDUIT

- THE INSTALLATION SHALL COMPLY WITH NFPA 96, NFPA 17A, THE MANUFACTURERS U.L. LISTING AND THE LOCAL AUTHORITY HAVING JURISDICTION

- EXHAUST HOOD SHALL CONTAIN Baffle TYPE GREASE FILTERS

- FIRE SYSTEM SHALL SHUTDOWN FUEL TO ALL APPLIANCES UPON SYSTEM DISCHARGE

- ALL ELECTRIC UNDER EXHAUST HOOD SHALL SHUTDOWN UPON SYSTEM DISCHARGE

- MAKE-UP AIR SHOULD REMAIN ON DURING SYSTEM DISCHARGE

- EXHAUST FAN SHOULD REMAIN ON DURING SYSTEM DISCHARGE

- REMOTE PULL STATION TO BE LOCATED A MINIMUM 10'-0" FROM HOOD ON THE PATH OF EGRESS FROM THE PROTECTED AREA

- FIRE SYSTEM INSTALLATION IS SUBJECT TO SEMI-ANNUAL INSPECTION BY THE AUTHORIZED INSTALLING CONTRACTOR TO WARRANTEE OF SYSTEM OPERATION & PERFORMANCE

- GAS VALVE TO BE INSTALLED BY A LICENSED PLUMBER

NEW YORK CITY NOTES:

- ANSUL R-102 SYSTEM MEA # 59-95-E

- NO DUCTS TO THE INTO AS PER RS 13-3

- FILTER MEA # 137-82M

- FAN SHALL REMAIN ON WHEN SYSTEM IS RELEASED AS PER RS 13-7-2.4

ELECTRIC NOTES:

UP TO (4) SWITCHES PROVIDED

* WIRING DIAGRAM TO BE USED AS A REFERENCE ONLY

* ALL CONNECTIONS TO BE VERIFIED BY A LICENSED ELECTRICIAN

* ALL WIRING TO BE DONE BY A LICENSED ELECTRICIAN

* EACH SWITCH HAS A SET OF SINGLE POLE, DOUBLE THROW CONTACTS RATED AT 21 AMP, 1 HP, 125, 250, 277 VAC OR 2 HP, 250, 277 VAC

* A RELAY MUST BE SUPPLIED BY OTHERS IF THE EQUIPMENT LOAD EXCEEDS THE RATED CAPACITY OF THE SWITCH

* ALL ELECTRICAL CONNECTIONS ARE TO BE MADE OUTSIDE OF THE FIRE SYSTEM CONTROL BOX

* ELECTRICIAN TO WIRE HORN/STROBE ALARM OR BUILDING ALARM TO ACTIVATE UPON FIRE SYSTEM DISCHARGE, IF REQUIRED

* MAKE-UP AIR TO SHUTDOWN UPON FIRE SYSTEM DISCHARGE

* ELECTRICIAN TO WIRE ANY ELECTRICAL EQUIPMENT UNDER EXHAUST HOOD TO SHUTDOWN UPON FIRE SYSTEM DISCHARGE

* ELECTRICIAN TO WIRE SOLENOID GAS VALVE WITH RESET RELAY TO SHUTDOWN UPON FIRE SYSTEM DISCHARGE (IF APPLICABLE)

ITEM	QUANTITY	PART #	DESCRIPTION	ITEM	QUANTITY	PART #	DESCRIPTION
1	1	429853	REGULATED RELEASE (MECHANICAL)	22	0	79694	1.5 ANSULEX
2	0	429856	REGULATED RELEASE (ELECTRICAL)	23	0	79372	3.0 ANSULEX
3	0	429870	ENCLOSURE ASSEMBLY	24	0	422439	101-10 CARTRIDGE
4	0	429878	BRACKET ASSEMBLY	25	0	422441	101-20 CARTRIDGE
5	0	429850	REGULATED ACTUATOR	26	0	423443	101-30 CARTRIDGE
6	0	429864	1.5 AGENT TANK	27	0	423429	LT-20-R CARTRIDGE
7	3	429862	3.0 AGENT TANK	28	0	423435	LT-30-R CARTRIDGE
8	1	429872	TWO TANK ENCLOSURE	29	1	422493	R-102 DOUBLE TANK CART.
9	4	419335	1N NOZZLE	30	0	423491	LT-A-101-30 CARTRIDGE
10	4	419336	1W NOZZLE	31	0	417369	DETECTOR
11	0	419334	1/2N NOZZLE	32	9	415745	360 FUSIBLE LINK
12	4	419337	2W NOZZLE	33	9	415746	450 FUSIBLE LINK
13	0	78078	2W NOZZLE	34	0	73867	500 FUSIBLE LINK
14	2	419338	3N NOZZLE	35	20	423250	PULLEY ELBOW
15	0	419339	230 NOZZLE	36	0	427929	PULLEY TEE
16	0	419340	245 NOZZLE	37	1	4835	REMOTE PULL STATION
17	0	419341	260 NOZZLE	38	1	423881	MICROSWTCH
18	0	419342	290 NOZZLE	39	1	-----	MECHANICAL GAS VALVE
19	0	419343	2120 NOZZLE	40	0	426151	SOLENOID GAS VALVE
20	12	419333	1F NOZZLE	41	0	-----	MANUAL RESET RELAY
21	0	430913	1100 NOZZLE	42	1	418087-06	INSTALLATION MANUAL
				43	25	-----	QUICK-SEAL ADAPTOR

ANSUL 1 OF 1				ANSUL R-102 FIRE SUPPRESSION SYSTEM			
Designed by	Checked by	Approved by - date	File name	Date	Scale		
DMC	DIC	7/10/03	ANSUL R-102	7/10/03	NTS		
RELIABLE FIRE PROTECTION INC. 123 WHITE OAK LANE - SUITE 225 OLD BRIDGE, NJ 08857 732-607-1500 / 800-368-0024				BRICK MEMORIAL HIGH SCHOOL 2001 LANDSMILL ROAD BRICK, NJ			



IntelliKnight® Model 5820XL Addressable Fire Alarm Control System



The IntelliKnight System is the easy way to make the most of fire alarm technology.

IntelliKnight is the first fire alarm system to provide you with the revolutionary value and performance of addressable sensing technology combined with exclusive, built-in digital communication, distributed intelligent power, a modular design and an expanded, easy to use interface. Powerful features such as drift compensation and maintenance alert are delivered in this powerful FACP from Silent Knight. For more information about the IntelliKnight system, or to locate your nearest source, please call 1-800-446-6444, or in Minnesota, call 763-493-6435.

Description

The IntelliKnight 5820XL performs drift compensation and calibration checks on each of the sensors in the system. The basic IntelliKnight 5820XL system can be expanded by adding modules such as the Model 5860 Remote Annunciator, Model 5815XL Signalling Line Circuit Expander, the Model 5824 Serial/Parallel Interface (for printing system reports), and the 5895XL Intelligent Power Module. The Model 5820XL also features a powerful built-in dual line fire communicator that allows for reporting of all system activity to a remote monitoring location.

Features

- Up to 508 addressable points.
- Uses standard wire—no shielded or twisted pair required.
- Built-in digital communicator.
- Central station reporting by Point or by Zone.
- Built-in synchronization for appliances from AMSECO, Gentex®, Faraday, and Wheelock®
- Supports Class B (Style 4) and Class A (Style 6) configuration for SLC, SBUS, and Flexput circuits.
- Distributed, intelligent power.
- Drift compensation.
- Flexput™ I/O circuits.
- Eight pre-programmed output cadences, (including ANSI-3.41), and 4 programmable outputs.
- Built-in annunciator with 80-character LCD display.
- RS-485 bus provides communication to system accessories.
- Built-in RS-232 interface for programming via PC.

- Built-in Form C trouble relay rated at 2.5 amps at 24 VDC.
- Two built-in Form C programmable relays rated at 2.5 amps at 24 VDC.
- Supports Sounder Bases.

Specifications

Primary AC: 120 VRMS at 50 / 60 hz, 2.5A
Total Accessory Load: 5A at 24 VDC
5 amps at 24 VDC of power-limited notification power
Standby Current: 140 mA
Alarm Current: 260 mA

Flexput™ Circuits

Six programmable circuits which can be programmed individually as:

Notification circuits: 3 amps of power-limited power per circuit at 24 VDC.

Auxiliary power circuits: 3 amps of power-limited power per circuit at 24 VDC.

Initiation Circuits: 100 mA of power limited power per circuits at 24 VDC.

Mechanical Specifications:

Flush Mount

Dimensions:

14-1/2"W x 24-3/4"H x 3-7/8"D
(36.8 W x 62.9 H x 9.8 D cm)

Overall Dimensions:

16-1/8"W x 26-3/8"H x 4-1/8"D
(40.6 W x 67 H x 11.8 D cm)

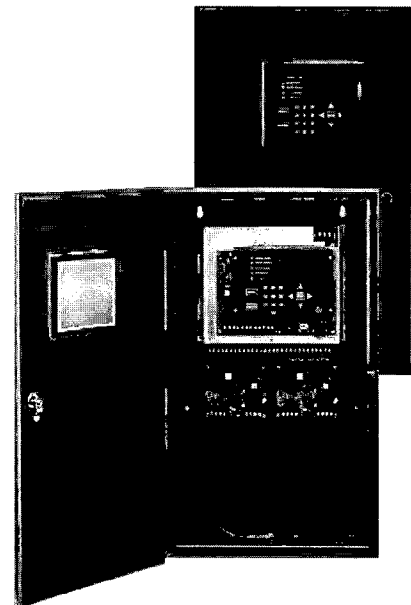
Weight: 28 lbs. (12.8 kg)

Color: Red

Telephone Requirements:

FCC Part 15 and Part 68 approved

Type of Jack: RJ31X (two required)



Approvals:

UL Listing
NFPA 72

-Central Station
-Remote Signalling
-Local Protective Signalling System
-Auxiliary Protected Premises Unit
-Water Deluge Releasing Service
7165-0559: 135
429-92-E Vol. 9
approved

CFSM:
MEA
FM



**SILENT
KNIGHT**

IntelliKnight Model 5820XL Addressable Fire Alarm Control Panel



Indicator Lights:

GENERAL ALARM (Red) - On for alarm

SUPERVISORY (Yellow) - On when a supervisory condition exists.

SYSTEM TROUBLE (Yellow) - On when a trouble condition exists.

SYSTEM SILENCED (Yellow) - On when an alarm, trouble or supervisory condition has been silenced but not yet cleared.

SYSTEM POWER (Green) - On when power systems are normal; flashes for AC or DC failure.

System Application

The IntelliKnight Model 5820XL control panel has one built-in Signalling Line Circuit (SLC) which supports 127 devices. Three additional loops can be added using the 5815XL SLC expanders to increase overall capacity to 508 devices.

The Model 5820XL's SLC loops support multiple device types:

- Addressable photoelectric smoke detector
- Addressable ionization smoke detector
- Addressable heat sensor
- Addressable duct smoke detector
- Contact module
- Relay output module
- Addressable notification module

The following advanced sensor capabilities are available using the IntelliKnight Model 5820XL:

- Automatic drift compensation
- Maintenance alert
- Built-in sensor test to comply with NFPA 72 calibration testing requirements

The IntelliKnight 5820XL features a 5 amp power supply and maximum battery charging capacity of 33 amp hours. An additional cabinet

enclosure is required for batteries in excess of 17 amp hours.

Flexput™ circuits on the Model 5820XL control can be individually programmed to function as notification circuits, auxiliary power outputs, or initiation circuits that support both 2- and 4-wire smoke detectors.

The IntelliKnight system operates on non-twisted, unshielded cable when wired in compliance with standard wiring practices as called out in the National Electric Code 760 specifications for power-limited fire protective signalling cables. No special wiring is required.

The Model 5820XL provides seven preset notification cadence patterns including ANSI 3.41 and four user programmable selections for fire alarm notification.

Two programmable general purpose Form C relay outputs are provided on the Model 5820XL FACP.

Additionally, the IntelliKnight system features a built-in walk test and auto-programming. Its innovative, dead-front cabinet design allows for flush or surface mounting. System maintenance is easy to perform.

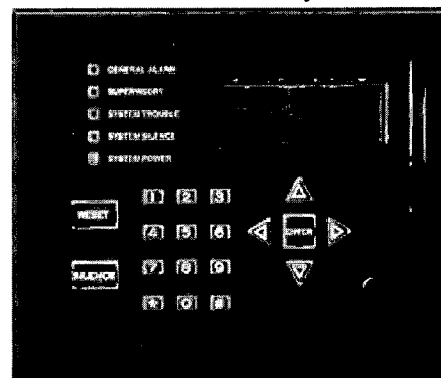
Built-In Digital Communicator

The IntelliKnight Model 5820XL features a built-in UL listed digital communicator for remote reporting of system activity and system programming. The communicator has the ability to seize two telephone lines to report alarms and troubles to a monitoring facility. The communicator supervises two phone lines and will activate a trouble signal if a line failure is sustained for more than 45 seconds. Other communication features include: retry if communication fails, two phone number capability, download phone number capability and touchtone or rotary

dialing. The communicator is compatible with SIA and Ademco Contact ID. The format is selectable by account number.

User Interface

The IntelliKnight's built-in annunciator with 80 character LCD display and large easy-to-use tactile touchpad can be used for system operation, programming and maintenance. It has five LEDs for alarm, supervisory, system trouble, system silenced and system power. System operations include silencing alarms and troubles, resetting alarms and the display of alarm troubles and memory. The system's non-volatile event history buffer stores 1000 events for viewing from the built-in or remote annunciator. System



operation can be initiated with a mechanical firefighter's key or a valid 4- to 7-digit operator's code.

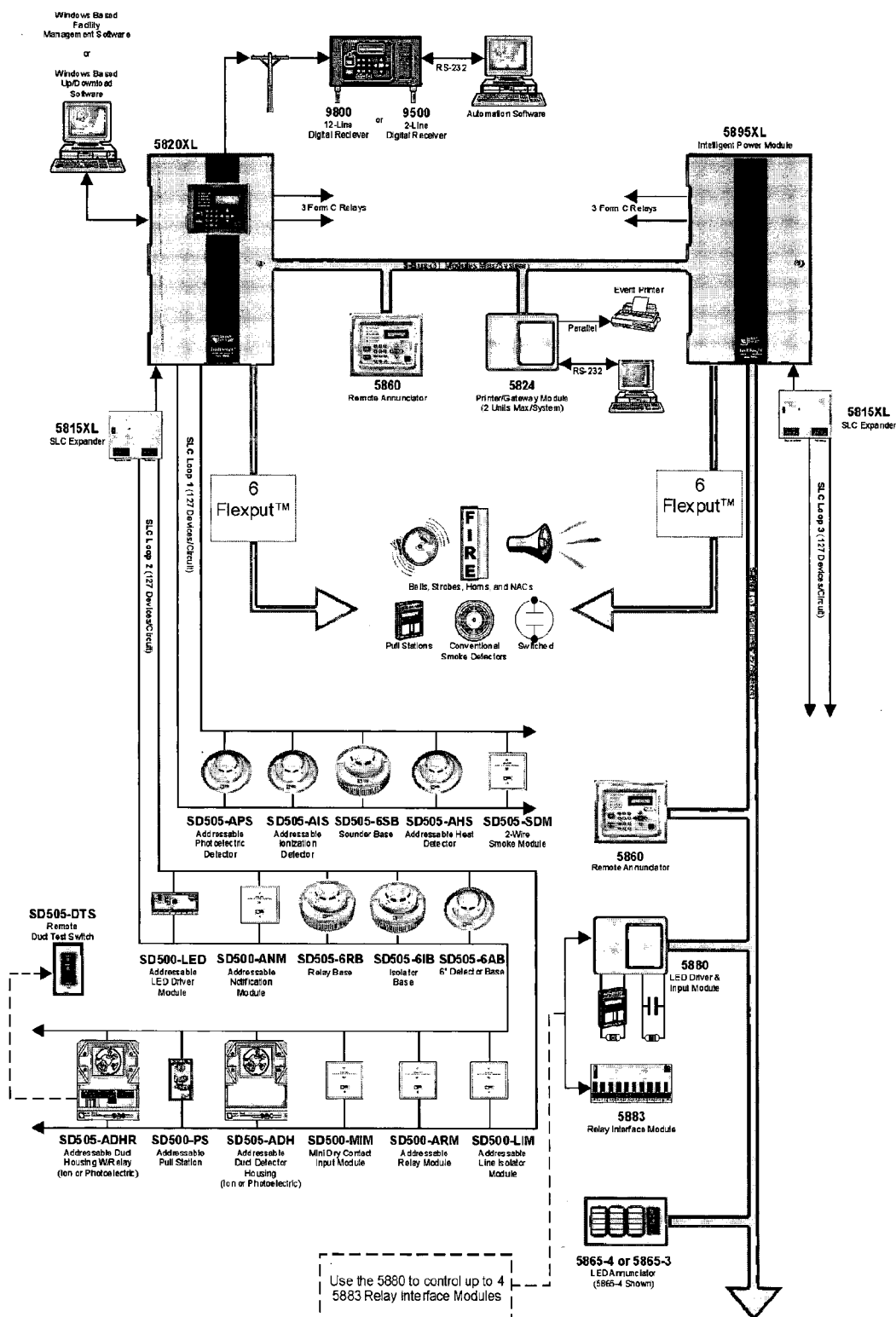
Programming

The IntelliKnight system offers several options to simplify and speed up programming. The JumpStart™ feature minimizes programming required to start a new system. The built-in keypad and the 5860 Remote Annunciator give on-site access to all programming. You can also program remotely using the Windows™ Download Software.

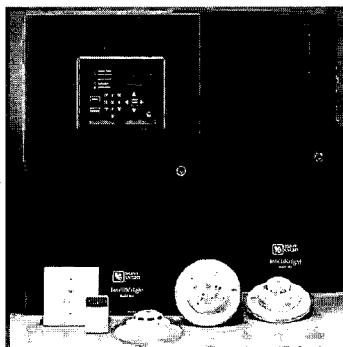
IntelliKnight Model 5820XL Addressable Fire Alarm Control Panel



IntelliKnight 5820XL Addressable Fire Alarm System



IntelliKnight System Accessories

**Compatible Devices**

IntelliKnight's devices feature a low profile design and EEPROM addressing. EEPROM addressing prevents water intrusion problems via the back of the sensor and eliminates mechanical failures related to decade switches.

Model SD505-APS

Addressable photoelectric smoke detector.

Model SD505-AIS

Addressable ionization smoke detector.

Model SD505-AHS

Addressable heat sensor.

Model SD505-6AB

Six inch base designed for use with detector head models SD505-APS, SD505-AIS and SD505-AHS.

Model SD505-4AB

Four inch base designed for use with detector head models SD505-APS, SD505-AIS and SD505-AHS.

Model SD500-AIM

Dry Contact Input Module. Designed to be used with normally open dry contacts. Mounts in a 4 inch square electrical box. It features an indicator LED to show alarm status and a coverplate.

Model SD500-MIM

Mini Dry Contact Input Module. A miniature version of the addressable input module which is designed to be used with pull stations and other normally open dry contact inputs where a smaller size is desired.

Model SD500-ANM

Addressable Notification Module providing a single Class A or Class B notification circuit on the SLC.

Model SD500-ARM

Addressable Relay Module. Features 2 Form C output relays, designed to

mount on a 4 inch square electrical box. Provides indicator LED to show output status and comes with a coverplate.

Model SD505-ADH

Duct Housing. Detects smoke in HVAC ducts.

Model SD505-ADHR

Duct detector base with relay. Provides form C alarm contact. For use with SD505-APS and AIS sensors. Compatible with SD505-DTS remote test switch.

Model SD505-DTS

Remote test switch. Used with SD505-ADHR. Provides remote key operated test function and annunciation of detector alarm.

Model SD505-6SB

Six-inch sounder base. Operates in single and multi-station modes and/or as a system sounder. Used with existing sensor and base. Requires 2 additional wires for power.

Model SD505-6IB

Six-inch isolator base. Used with existing base and the SD505-APS, AIS, and AHS sensors. Provides isolation for style 7 circuits.

Model SD505-6RB

Six-inch relay base. Used with existing sensor and base. Provides one Form C contact.

Model SD500-SDM

Two-wire detector input module. Allows for the connection of conventional 2-wire detectors on the SLC loop. Requires two additional wires for power.

Model SD500-LIM

Loop Isolator Module. Provides isolation for style 7 circuits.

Model SD500-LED

An Addressable LED driver module that connects to the SLC loop and is capable of driving 80 LEDs. Up to 40 SD500-LED modules can be used SLC loop with a maximum of 100 SD500-LED modules per system.

Model SD500-PS

Addressable Pull Station

S-BUS Accessories

The following items listed are devices that connected to the IntelliKnight's RS-485 Bus

5860 Remote Fire Annunciator

The 5860 features the same 80 character backlit LCD display keypad and firefighter's keyswitch as the 5820.

The system can be fully programmed and operated from any remote annunciator.

5815XL Signal Line Circuit Expander

The SLC expander is used to add more addressable devices to the IntelliKnight system. The 5820XL can support three 5815XLs. Each 5815XL can support 127 devices.

5895XL Intelligent Power Module

Adds 5 amps of power, 6 Flexput™ I/O circuits and 2 Form C relay circuits to an IntelliKnight system.

5880 LED/I/O Module

Features 40 LED outputs, 8 normally open dry contact inputs and one piezo output.

5865-3 and 5865-4**Remote LED Annunciator**

Features 30 Programmable LEDs (15 red and 15 yellow) outputs and piezo sounder. The 5865-4 adds a silence and reset switch to the package.

5883 Relay Board

Features 10 General purpose Form C relays. Used with 5880 module.

5824 Serial/Parallel Gateway Module

Has one parallel and one RS-232 serial port for connecting any standard IBM-compatible printer to the IntelliKnight system. Interfaces with building control system.

5496 Intelligent Power Module

The Model 5496 is a 6 amp.notification power expander that provides four additional power-limited notification appliance circuit outputs.

SKSS Silent Knight Software Suite**5660 Up Down Load Software**

User-friendly, Windows™ software for remote programming of the IntelliKnight panel using a PC.

5670 Facility Management Software

Powerful end-user software allows viewing of detector status and event history via modem or direct connection.



**SILENT
KNIGHT**

7550 Meridian Circle, Maple Grove, MN 55369-4927

800-446-6444 or in Minnesota 763-493-6435

FAX: 763-493-6475

World Wide Web: <http://www.silentknight.com>

MADE IN AMERICA

FORM# 350210, Rev. 04/02

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Flexput is a Trademark of Silent Knight



Model 5860 Remote Annunciator



Bring the power to control IntelliKnight® to every area within your facility.

Now you can operate and program your IntelliKnight system from up to 8 locations throughout your facility. The Model 5860 Remote Annunciator provides the same advanced, easy-to-use interface found on the IntelliKnight panel's built-in annunciator. The 80-character display and ergonomically designed keypad allow for simple and error-free system operation. All operations—including reset, silence, detector status checking, fire drill, and programming—are identical.

Access to the system is through a firefighter's key or an access code. For security, a special installation code is needed for programming functions.

The 5860 connects to the IntelliKnight panel via the RS-485 system bus. Wire runs can be up to 6000 feet from the panel.

Model 5860

Remote Annunciator

The 5860 is designed to look and operate exactly the same as the IntelliKnight built-in annunciator. Features include an 80-character backlit LCD providing easy-to-understand system messages. The annunciator is ergonomically designed with over-sized buttons for the most frequently used features, like Reset and Silence.

In addition to status messages displayed on the LCD, there are five LEDs for alarm, supervisory, trouble, silence, and AC power status.

The annunciator is available in gray to match virtually any decor and red for applications where the annunciator must stand out. The annunciator enclosure can be surface or flush mounted. A trim ring kit is available for surface mounting.

Operation

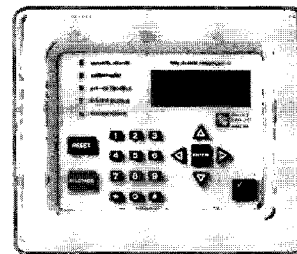
When the system is normal and receiving AC power, the power LED is lit and all other LEDs are off. Other LEDs turn on as the conditions occur.

Users identify themselves to the control panel by entering a code on the annunciator or by turning the firefighter's key. When a user presses a button, the annunciator piezo beeps and the LCD prompts the user to enter a code or other relevant information.

Multiple users can work at different annunciators simultaneously without affecting each other.

Features

- 80-character display
- Tactile/audible feedback
- Accepts user codes or firefighter's key
- RS-485 interface to panel
- Can be flush- or surface-mounted. Trim ring available for surface-mounting.
- Operation and appearance identical to on-board annunciator
- Supports simultaneous use by multiple users
- UL listed, complies with NFPA 72
- CSFM Approved
- MEA Listed
- FM Approved



5860 Remote Annunciator

Specifications

Operating Voltage:	24 VDC
Standby Current:	20 mA
Alarm Current:	25 mA
Max. per system:	8
Ambient Temperature:	32°F to 120°F (0°C to 49°C)
Mounting:	Surface or flush
Wiring Distance from IntelliKnight panel:	Up to 6,000 feet
Dimensions:	Height: 7-3/8" Width: 9-1/8" Depth: 1-1/2"
Colors:	Lt. gray (5860) Red (5860R)



**SILENT
KNIGHT**

Model 5860

Remote Annunciator



Engineering Specifications

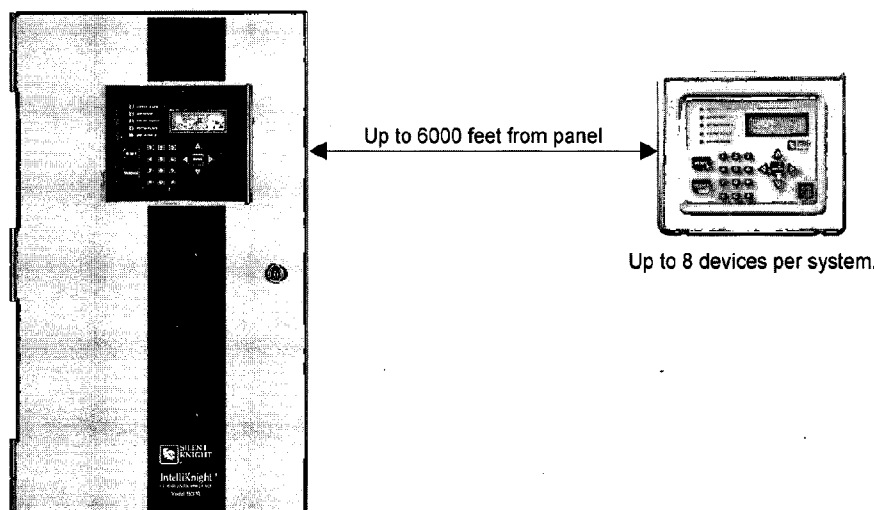
The main control must have a built-in annunciator and must support up to eight remote annunciators. Remote annunciators shall have the same control and display layout so as to match the appearance of the built-in annunciator. Remote annunciators shall be available in two colors, red or light gray.

Remote annunciators shall have identical functionality and operation as the built-in annunciator. All annunciators must have an 80-character LCD display and must feature five LEDs for: General Alarm, Supervisory, System Trouble, System Silence, and System Power.

All controls and programming keys are silicone mechanical type with tactile and audible feedback. Keys have a travel of .040 inches. No membrane style buttons will be permissible.

The annunciator must be able to silence and reset alarms through the use of a code entered on the annunciator keypad or by using a firefighter's key. The annunciator must have two levels of user codes that will limit the operating system programming to authorized individuals. The control panel must allow all annunciators to accommodate multiple user input simultaneously.

5860 Block Diagram



**SILENT
KNIGHT**

7550 Meridian Circle, Maple Grove, MN 55369-4927

800-446-6444 or in Minnesota 763-493-6435

FAX: 763-493-6475

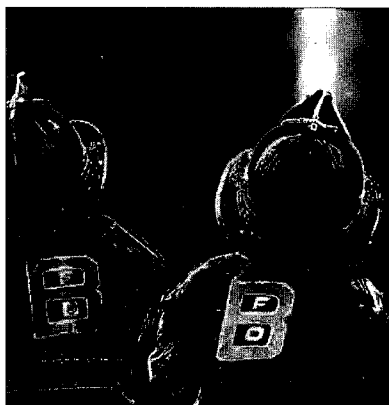
World Wide Web: <http://www.silentknight.com>

MADE IN AMERICA

FORM# 350224, Rev. 01/01

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SD500-PS Addressable Pull-Station



IntelliKnight's addressable pull stations combine fast response with pin-point location ID.

The SD500-PS is an addressable manual fire alarm pull station for use with Silent Knight's IntelliKnight fire control panel. Extremely easy to operate, the SD500-PS provides a fast and practical means of manually initiating a fire alarm signal. The IntelliKnight panel recognizes each manual pull station by its specific address saving precious seconds in determining the location of an alarm.

The SD500-PS mounts to a single gang box and features a rugged metal construction that lasts and lasts. Combine all this with the features you've come to expect from Silent Knight - easy installation and stable operation - and it adds up to a flexible solution for all your fire protection needs.

Model SD500-PS

Addressable Pull Station

The SD500-PS is a single action addressable fire pull station featuring rugged metal construction. A terminal strip on back of the pull station allows interconnection of the pull station to the SLC of an IntelliKnight control panel. The SD500-PS is designed for indoor use in non-explosive environments. The normally open initiating point contacts are gold-plated to avoid risk of corrosion. The SD500-PS has been tested by UL for compliance to the requirements of the Americans with Disabilities ACT (ADA).

Features

- UL Listed
- CSFM listed
- ADA compliant
- Key reset (Same key as Silent Knight enclosures)
- Surface mount back box available
- Terminals - accept up to 14 gauge wire
- Extremely easy to operate
- Corrosion-resistant gold-plated contacts.
- Reflective label makes it easier to locate in low light

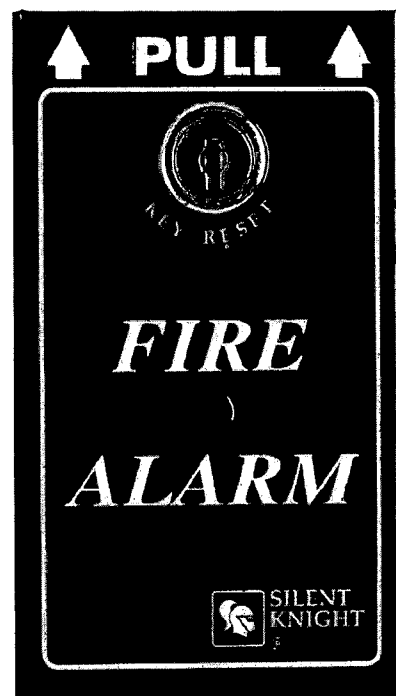
Operation

The SD500-PS single action pull stations are operated by a pull on the front pull cover of the station. A plunger switch, wired to a self contained addressable module, is released as the pull station opens to initiate the alarm. Once operated, the cover hangs down and can be seen up to 100 feet away. The pull station is reset by returning the front cover to the normal upright position and relocking the station with a reset key. The reset keys are the same keys used on Silent Knight enclosures.

The SD500-PS includes a status LED which blinks, indicating that the addressable module is communicating with the loop. The status LED lights continuously during an alarm. A dip switch on the addressable module is used to set the unique address.

Specifications

Operating Voltage:	24VDC
Standby Current:	.55mA
Alarm Current:	.55mA
Ambient Temperature:	32°F to 120°F (0°C to 49°C)
Mounting:	Single gang box -
Optional Red Surface Mount Box PS-SMBB	



SD500-PS



**SILENT
KNIGHT**

SD500-PS Addressable Pull-Station

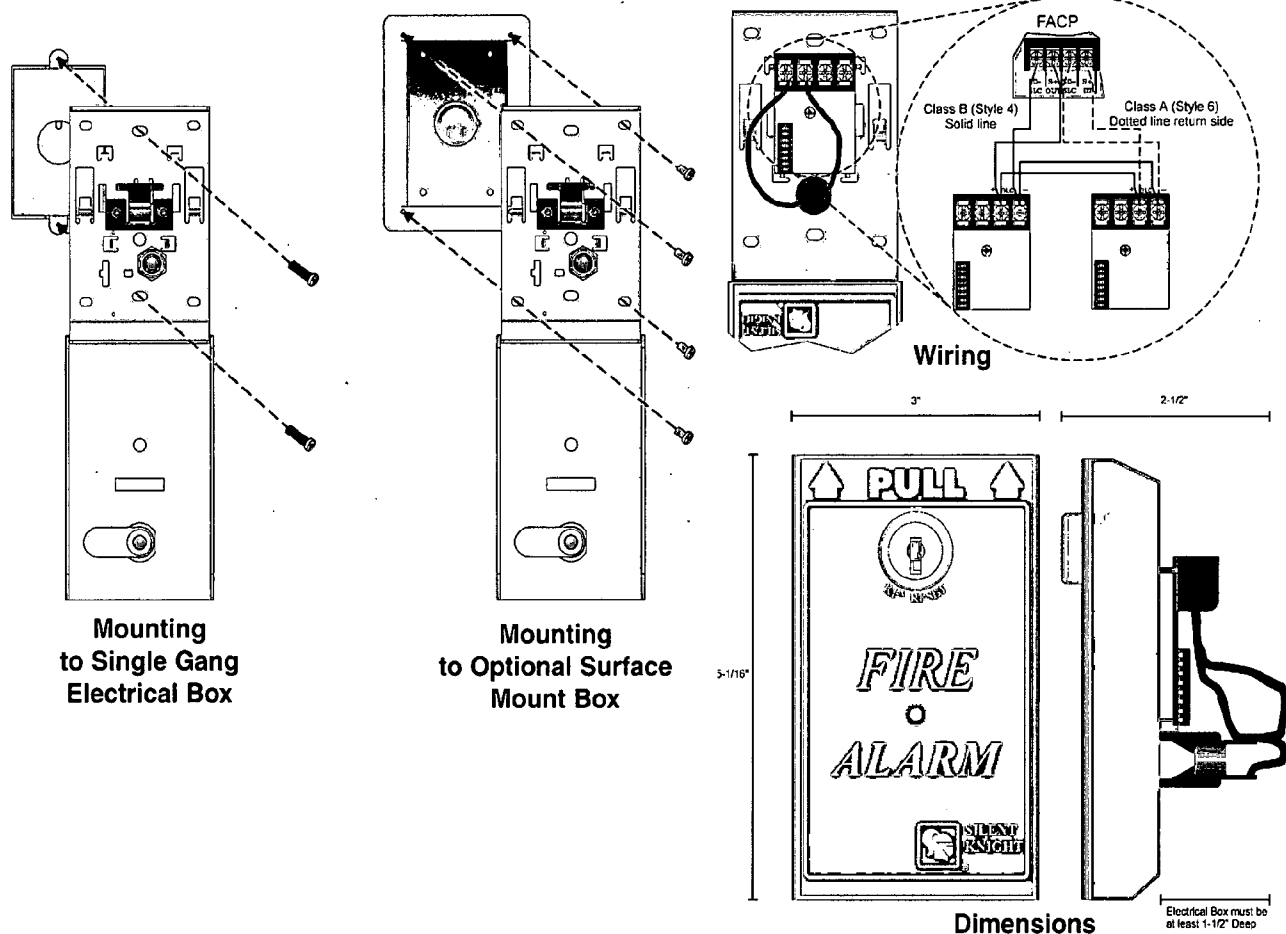


Engineering Specifications

Manual pull station shall be addressable Module SD500-PS. Equipment shall be made of 14 gauge C.R.S. (Cold Rolled Steel), painted with a red enamel. The label shall contain the words Fire Alarm and be made of a reflective material embossed text 3/8 inches tall. Operating instruction shall be clearly visible on the same label. Manual station shall contain a key operated test and reset lock using a lock plate actuator, the key shall match the control panel.

Manual station shall contain four terminal blocks with two connected to the addressable MIM module and two connect to the SLC loop. Manual station shall provide data to the control panel with an ID address programmed by dip switch settings.

Manual stations shall be Underwriters Laboratories Inc. listed and installed within the limits defined in the American Disabilities Act.



**SILENT
KNIGHT**

7550 Meridian Circle, Maple Grove, MN 55369-4927

800-446-6444 or in Minnesota 612-493-6435

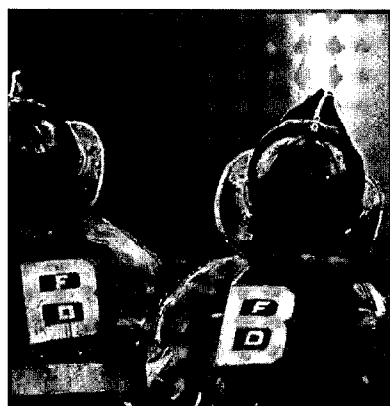
FAX: 612-493-6475

World Wide Web: <http://www.silentknight.com>

MADE IN AMERICA

FORM# 350342, Rev. 1/2000

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Addressable Photoelectric Type Smoke Detector



**Detect smoldering fires quickly and get help fast
with IntelliKnight® photoelectric smoke detectors.**

IntelliKnight addressable photoelectric smoke detectors are the clear choice for commercial settings where smoldering fires are a threat. In addition to accurately detecting a smoldering fire, each SD505-APS photoelectric detector has a unique address, which is recognized by the IntelliKnight panel. No precious seconds are wasted in determining location of an alarm.

The SD505-APS compensates automatically for contamination in the environment. And detector testing is simple—even from a remote site. Like other IntelliKnight detector models, the SD505-APS offers a low profile for pleasing aesthetics. The IntelliKnight family of detectors has been designed to use a common base, Model SD505-6AB, allowing complete application and placement flexibility. Combine all this with the features you've come to expect from Silent Knight smoke detectors—easy installation, stable operation, RF/transient protection, and vandal-resistant locking—and it adds up to a flexible solution for all your fire protection needs.

Model SD505-APS Analog/Addressable Photoelectric Type Smoke Detector

The SD505-APS is particularly suited to detecting dense smoke typical of fires involving materials such as soft furnishings, plastic, foam or other similar materials which tend to smolder and produce large visible particles.

The detector features automatic compensation for contamination and a simple detector calibration test procedure that can be run from the panel or remotely (using the Windows™ based downloading software).

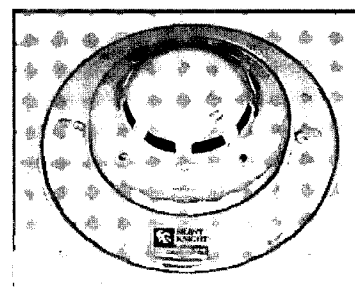
Operation

The SD505-APS units made up of an LED light source and a silicon photo diode receiving element. In a normal standby condition, the receiving element receives no light from the pulsing light source. In the event or fire, smoke enters the detector and light is reflected from the smoke particles to the receiving element.

The light received is converted into an electronic signal. Under normal conditions, the status LED blinks approximately every 15 seconds, indicating that the head is communicating with the loop. The LED lights continuously during the alarm period.

Features

- Low profile, 2 inches, including base
- Simple and reliable addressing without mechanical switches
- Automatic compensation for sensor contamination
- Built-in fire test feature
- Simple detector calibration testing through the control panel or remotely through a Windows™ based computer software.
- Vandal-resistance locking features
- Field cleanable
- UL listed, meets NFPA 72 Ch 7 requirements
- CSFM approved
- MEA approved
- FM Approved



SD505-APS Smoke Detector

Specifications

Operating Voltage:	17-41 VDC
Current Consumption:	
Standby:	.55 mA
Alarm:	.55 mA
Ambient Temperature:	32°F to 100°F (0°C to 50°C)
Mounting:	4" Square, 4" OCT, Single gang mud ring
Relative Humidity:	85% noncondensing
Sensitivity:	0.88% - 3.57% FT
Air Velocity:	500 - 4000 FPM
Compatible Bases: (Sold Separately)	SD505-6AB (6" Base) SD505-4AB (4" Base)



**SILENT
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Model SD505-APS Addressable Photoelectric Type Smoke Detector



Engineering Specifications

The contractor shall furnish and install where indicated on the plans, addressable photoelectric smoke detector Silent Knight SD505-APS. The combination detector head, and twist-lock base, shall be UL® listed compatible with Silent Knight's IntelliKnight 5820XL fire panel.

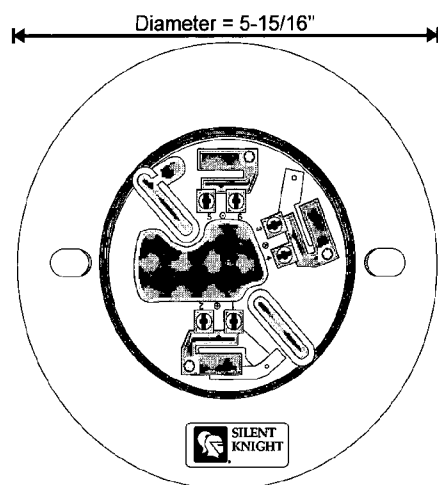
The base shall permit direct interchange with Silent Knight SD505-AIS Ionization Smoke Detector, or SD505-AHS Heat Detector. Base shall be the appropriate twist-lock base SD505-6AB.

The smoke detector shall have a flashing status LED for visual supervision. When the detector is actuated, the flashing LED will latch on steady. The detector may be reset by actuating the control panel reset switch.

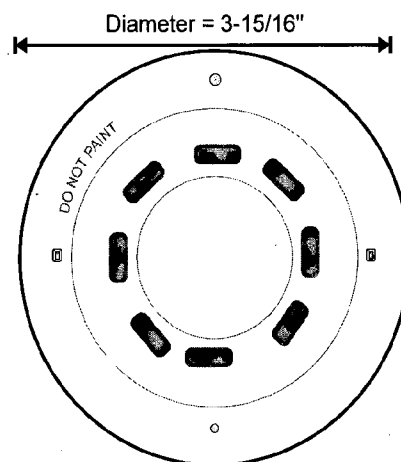
The calibration of the detector shall be capable of being selected and measured by the control panel without the need for external test apparatus.

The vandal-resistant, security locking feature shall be used in those areas as indicated on the drawing. The locking feature shall be field selectable as required.

The SD505-APS shall automatically perform a functional test of the detector. The test method shall simulate effects of products of combustion in the chamber to ensure testing of detector circuits.



Model SD505-6AB Detector Base
(front view)



Model SD505-APS Detector Head
(front view)

Height = 2 inches,
including base



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FAX: 763-493-6475

World Wide Web: <http://www.silentknight.com>

MADE IN AMERICA

FORM# 350225, Rev. 01/01

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TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
FIRE PROTECTION
SUBCODE
TECHNICAL SECTION

Date Received 02/21/2003
Date Issued 3/6/03
Control # C21-12
Permit # 03-0702

A. IDENTIFICATION-APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING
CONTRACTORS, NOTIFY THIS OFFICE, CALL UTILITY DIG NO: 1-800-272-1000

Block 1211 Lot 2 Quad
Work site location 2001 JAMES MILL RD-BRICK MEMOR

Owner in Rec. BRICK BOARD OF EDUCATION
Address 101 HENDRICKSON AVE

BRICK, NJ

Tele. (732) 785-3000

Contractor EBM INC WARELL SECURITY SERV

Address PO BOX 44

HOBOKEN, NJ 07731-

Tele. (732) 363-0550

M.C. No. or Bldgs. Reg. No.

Federal Emp. No. 22-3330961

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present U Proposed U

Constr Class Present Proposed

Heating Systems New Existing HVAC

Type Gas Oil Elect Solar

Location:

Fire Alarm System New Existing

Total Est Cost of Fire Prot Work \$ 21,000

C. CERTIFICATION IN LIEU OF OATH

PLAN REVIEW

Joint Plan Review Required

Bldg Elect

Plumb Elevator

Fire Plans Approved

Date 2-28-03

Approved By: [Signature]

SUBCODE APPROVAL

CO CCO CA

Date:

Approved By:

INSPECTIONS

Alarm Sys

Suppr Test

Standpipe

Fire Pump

Prebng Sys

Mechanical

Smoke Ctl

TCO

Final

Other

D. TECHNICAL SITE DATA

Description of Work:

Water Supply Source

Method of Alarm/Suppr Sys Superv

Storage Tanks

Type: Flammable Liquid Combust Liquid

APG LMG Capacity Pgal

Alarm Systems 110V Interconnected NUMBER

System

Alarm Devices (smoke, heat, pulls, water/flow) 116

Supervisory Devices (tamper, low/high air) 0

Signalling Devices (horn/strobes, bells) 0

Other Devices REPLACE DETECTS 33

TOTAL 149

Suppression Systems

Fire Pump GPM Type 0

Dry Pipe/Alarm Valves 0

Pre-action Valves 0

Sprinkler Heads (Dry and Wet) 0

Standpipes 0

Pre-engineered Systems 0

Wet Chemical 0

Dry Chemical 0

CO2 Suppression 0

Foam Suppression 0

Ration Suppression 0

Other 0

Kitchen Hood Exhaust System 0

Smoke Control System 0

Gas or Oil fired Appliances 0

Other 0

Other 0

Other 0

Other 0

Other 0

Other 0

Other 0

Other 0

Other 0

Other 0

Other 0

Other 0

Other 0

Other 0

FBF (Office use only)

fire into system
existing

95

C. CERTIFICATION IN LIEU OF OATH
I hereby certify that I am the (agent of) owner of record and am authorized
to make this application.

Signature

Counter Form
PLEASE PRINT

PLUMBING

FIRE

Contractor: _____
Address: _____
Phone #: _____
Lis #: _____
Federal Emp # or SSN _____

Contractor: Wandell Security
Address: PO Box 44
Howell N.J. 07731
Phone #: 732-363-0550
Lis #: _____
Federal Emp # or SSN 22-3330961

Technical Data

Fixtures	Quantity
Water Closets (Toilet)	_____
Urinals/Bidets	_____
Bath Tub (w/or w/out shower head)	_____
Lavatory (BR Sink)	_____
Shower	_____
Floor Drain	_____
Sink	_____
Dishwasher	_____
Drinking Fountain	_____
Washing Machine	_____
Hose Bib	_____
Gas Piping	_____
Fuel Oil Piping	_____
Water Heater	_____
Steam Boiler	_____
Hot Water Boiler	_____
Sewer Pump	_____
Interceptor/Separator	_____
Backflow Preventer	_____
Greasetrap	_____
Air Conditioner (Condensate Drain)	_____
Septic Tank Closure	_____
Sewer Service Connection	_____
Water Service Connection	_____
Active Solar System	_____
Auxiliary Meter	_____
Sprinkler Heads	_____
Sump Pump	_____
Pool Heater	_____
Other:	_____

Estimated Cost of Plumbing Work _____

I hereby certify that I am the agent/owner of record and am authorized to make this application and perform the work listed on this application.

Signature: _____

Please Print Name: _____

CONTRACTOR'S SEAL

Technical Data

Description of Work:

Heating Type: _____ Gas _____ Oil _____ Electric _____ Solar _____
Heating System is _____ New _____ Existing _____
Location of Furnace/Boiler: _____
Water Supply Source _____
Method of Valve Supervision _____
Local Alarm Supervision _____
Central Supervision: _____
Proprietary Supervision: _____

Flammable Storage Tanks _____ capacity _____ fuel _____
Combustible Storage Tanks _____ capacity _____ fuel _____
LPG Storage Tanks _____ capacity _____ fuel _____

Item	Quantity
Wet Sprinkler Heads	_____
Dry Sprinkler Heads	_____
Total	_____

Smoke Detectors Replace 116 Heads with Addressable Smokes
Heat Detectors Replace 33 M113 Stations with Addressable
Total 149

Stand Pipes _____
Kitchen Hood Exhaust System Yes

Pre-Engineered Systems:
CO2 Suppression _____
Halon Suppression _____
Foam Suppression _____
Dry Chemical _____
Wet Chemical _____

Gas/ Oil Fired Appliances:
Gas Stove _____
Gas Dryer _____
Furnace (Gas or Oil) _____
Gas Fireplace _____
Gas Logs _____
Total Appliances _____

Wood Burning Stove _____
Wood Fireplace _____
Other: Tie in 3 Alarm Systems into Fire Alarm

Estimated Cost of Fire Work 21000

I hereby certify that I am the agent/owner of record and am authorized to make this application and perform the work listed on this application.

Signature: Edward B Wandell

Print Name: Edward B Wandell

Township of Brick

Counter Form (PLEASE PRINT)

Site Location: Brick Memorial High School
Block: 1211 Lot: 2
Owner's Name: Brick Bd of Ed
Owner's Mailing Address: 101 Hendrickson Ave, Brick NJ
Phone: (732) 262-2626

BUILDING

Contractor: _____
Address: _____
Phone#: _____
Lis # _____
Federal Emp # or SSN _____

Technical Data

Description of Work: _____

Type of Work

☐ New Building ☐ Siding
☐ Addition ☐ Fence
☐ Alteration ☐ Pool
☐ Roofing ☐ Demolition
☐ Asbestos Abatement ☐ Sign _____ sq ft

Building Characteristics

Use Group Present: _____ Proposed: _____
No of Stories: _____
Height of Structure: _____
Area of the largest floor: _____
Area of New Structure: _____
Volume of New Structure: _____
Total Land Disturbed: _____

Cost of Alteration: \$ _____

Cost of New Building: \$ _____

Total Cost of New Building Work: \$ _____

I hereby certify that I am the agent/owner of record and am authorized to make this application and perform the work listed on this application.

Signature: _____

Please Print Name _____

ELECTRICAL

Contractor: Wandell Security
Address: P.O. Box 44
Huvel NJ 07731
Phone#: 732-363-0550
Lis #: _____
Federal Emp # or SSN 22-3330961

Technical Data

Item	Quantity
Lighting Fixtures	_____
Receptacles	_____
Switches	_____
Detectors	_____
Light Poles	_____
Motors w/ Fract. HP	_____
Emergency & Exit Lights	_____
Communication Points	_____
Alarm Devices/FAC Panel	<u>149</u>
Total	<u>149</u>

Pool (Receptacles, Switches, Lights, Motor 1HP) _____
Spa/Hot Tub/Storable Pool _____
Electric Range _____ KW
Oven/Surface Unit _____ KW
Electric Water Heater _____ KW
Electric Dryer _____ KW
Dishwasher _____ KW
Garbage Disposal _____ HP
A/C Unit - Central Air _____ KW
Space Heater/Air Handler _____ KW
Baseboard Heating _____ KW
Motors 1+ HP _____
Transformer/Generator _____ KW
Light Stander _____ AMP
Service _____ AMP
Subpanel _____ AMP
Motor Control Center _____ AMP
Sign/Outline Light _____ KW
Furnace _____
Steam Boiler _____
Other: _____

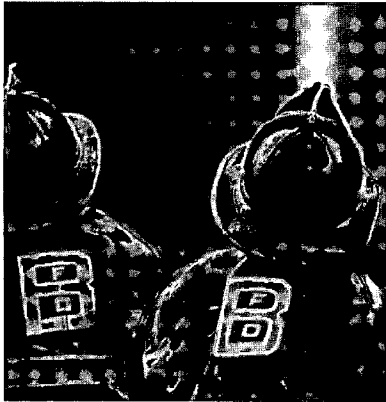
Estimated Cost of Electrical Work: _____

I hereby certify that I am the agent/owner of record and am authorized to make this application and perform the work listed on this application.

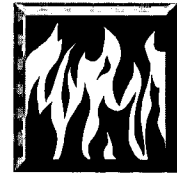
Signature: Ed B Wandell

Please Print Name Edward B Wandell

CONTRACTOR'S SEAL



Model 5815XL Signaling Line Circuit Expander



Add flexibility to IntelliKnight® applications with the 5815XL SLC Expander

The Model 5815XL SLC Expander is a signaling line circuit controller for Silent Knight's IntelliKnight 5820XL addressable fire control panel. It allows you to add 127 addressable devices to the IntelliKnight system. Two 5815XLs can be added to the 5820XL for a maximum of 381 addressable devices per IntelliKnight system.

5815XL signaling circuits have the same functionality as the SLC that is built into the IntelliKnight panel and support the same addressable devices as the main panel. The 5815XL connects to the panel via the RS 485 bus and is housed in the IntelliKnight 5820XL or 5895XL cabinet.

Model 5815XL

Signaling Line Circuit Expander

The 5815XL expands the capabilities of the IntelliKnight fire control panel by allowing 127 additional addressable devices to be attached to the system.

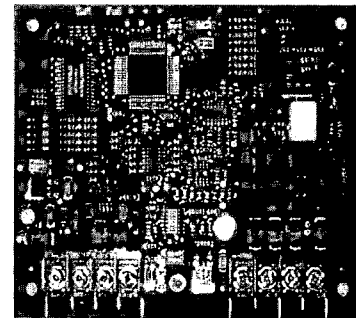
All functionality of the built-in SLC is provided with the 5815XL. Two 5815XLs can be added to an IntelliKnight system for a total of 381 addressable devices per system.

Operation

The 5815XL communicates with the IntelliKnight FACP via an RS 485 system bus. A green LED on the 5815XL board blinks to indicate good communication. If an addressable device on a 5815XL fails, the loop communicates the failure to the panel and continues to operate normally.

Features

- Adds 127 addressable to an IntelliKnight system
- Two 5815XLs per system
- 5815XL SLCs have same functionality as built-in, including Style 6 (Class A) configuration
- Communicates with the IntelliKnight panel via RS 485 system bus
- LED indicates good communication
- Housed inside IntelliKnight 5820XL cabinet or remotely mounted inside the 5895XL cabinet.
- UL 864 listed, complies with NFPA 72 and 101
- Communicates on most standard wiring systems (ideal for retrofits)
- FM approved



Model 5815XL

Specifications

System Capacity	IntelliKnight system supports two 5815XL SLC Expanders. Each expander supports 127 addressable devices; IntelliKnight system supports 381 devices total.
Operating Voltage	24 VDC
Current Consumption (standby and alarm)	55 mA minimum - 125 mA max. (with 127 devices)
Ambient Temperature	32°F to 120°F (0°C to 49°C)
Mounting	Inside IntelliKnight FACP or 5895XL cabinet



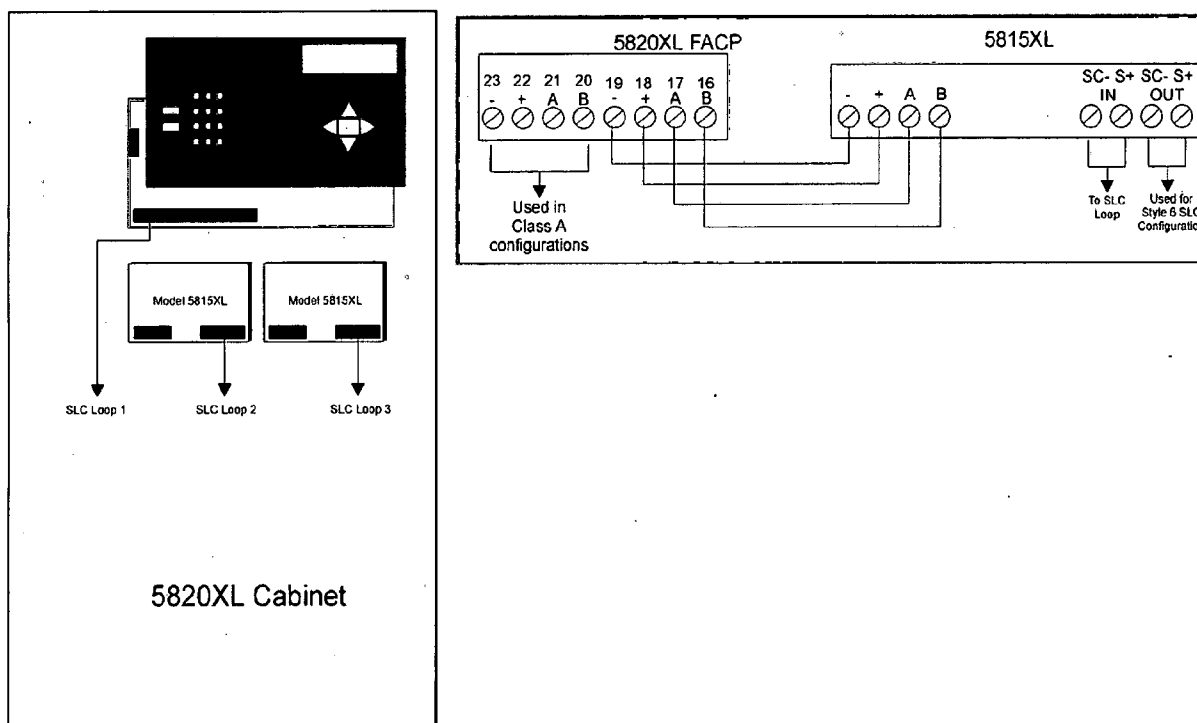
**SILENT
KNIGHT**

Model 5815XL Signaling Line Circuit Expander



Engineering Specifications

The contractor shall provide a signaling circuit expander compatible with the IntelliKnight 5820XL fire control panel that allows 127 addressable devices to be added to the system. The IntelliKnight panel shall support two expanders for a total of 381 addressable devices per system. The expanders shall mount inside an IntelliKnight system cabinet, either the FACP or the 5895XL. The expanders shall provide signaling line circuits that have the same installation and functionality as built-in SLCs and shall communicate to the main panel via an RS 485 system bus. A green LED on the expander board shall blink to indicate communication with the main panel.



5815XL Block Diagram



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FAX: 763-493-6475

World Wide Web: <http://www.silentknight.com>

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